

HAPPY BIRTHDAY
FLORIDA SKIP!
BEGINNING OUR
14TH YEAR!!

SUBSCRIPTION EXPIRES
THIS ISSUE

FLORIDA SKIP

VOLUME 14 NO. 1

THE ALL-FLORIDA RADIO AMATEUR'S PUBLICATION

JUNE / 1970

Price 20c

Florida State Fair

By Frank Sharmon, K4GT

Since 1927, with the WW2 years omitted, W4DUG, TARC's club station has occupied the same booth at The Florida State Fair! We believe this a "record" in this category!

W4DUG, accepted and transmitted, on the average 3,600 messages via amateur-radio from visitors attending the annual two-weeks fair. This requires many members participating. To install gear at the fair-location, to operate the station, to man the front counter by assisting the public to write-up their individual messages, etc., etc. This also includes the dismantling of W4DUG and associated furniture, supplies, and re-installing it at the clubhouse. Quite a task — and after so very many continuous years participation, has become tradition with all concerned!

Our member John Fogarty, W4CI, still handles all the ad-

ministrative arrangements with the management of the fair continuously, since the original participation in 1927!

The wellknown "EPL" gal, Mae Burke, W3CUL (see her photo elsewhere), still lines-up outstanding brass-pounders for schedules to handle W4DUG traffic. "Mae" usually takes the first hour's traffic nightly (7 PM to Midnite) during the two-week period. Our Seward Van Patten WA4FTF, ably assisted by his XYL, K2GSP Helen, handled all the daytime SSB transmissions. This year, a 6-Meter Xceiver was added and considerable number of messages were addressed to overseas military and these were relayed locally to amateurs who held membership in USAF MARS System for entry into the MARS long haul nets.

Annually, The Florida State Fair is held in February and these dates include the week of "The Gasparilla" thus at-



SINCE 1927, THE TAMPA Amateur Radio Club has set up an amateur station at their Florida State Fair during February. Here we see visitors filing messages to their friends up north. An average of 3,600 messages sent each year. See story elsewhere. (Photo via K4GT)

tracting many out-of-town visitors! So, with "pardonable" pride The Tampa Amateur

Radio Club has added to the task of presenting a good image to the general public!

AUTO TAG HR-1121 BILL

We had hoped to bring you more info on HR-1121, but it appears we will have to wait a while longer.

Bud, WA4EQQ from Tallahassee sent SKIP the following radio gram: "HR-1121 pulled from appropriation committee and put on house calendar April 21st. Will come up on normal routine but do not know when..." Thanks Bud.

Keep tuned to this publication for the latest on HR-1121 next month folks.

I am taking this opportunity to report to the ARRL membership and other interested radio amateurs the results of the just completed annual Board of Directors meeting.

It is impossible to cover completely all the topics discussed and the decisions reached. Of necessity, I shall have to be brief and consequently, the background information as to how these decisions were arrived at may

be incomplete. However, I shall be pleased to respond to any reasonable requests for further

Silent Keys

We are deeply sorry to report the passing of the following Florida amateurs:
W. Dale Williams, W4EPC, Coral Gables
Cloyd Hewes, ex-W4TA, Miami
Joseph S. Bainter, W4RZV, Pensacola.

information either by personal contact at clubs or conventions, or phone or by letter.

Strong opposition to the restrictive FCC proposals on VHF repeaters will be filed based on the excellent recommendations of the ARRL VHF Repeater Advisory Groups, other interested organizations, individuals, The Board of Directors, and legal

(Continued on Page 9)

Director's Report

H. Dale Strieter, W4DQS

FLORIDA SKIP, INC.
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6

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—Editor

Dear Mabel KYL Award, c/o Skip, Box 501, Miami Springs, Fla.

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TPTN, W4SMK, Ft. Myers
PATF, W4ZAG, Tampa
GN, W4IA, Orlando
TNS Net, WB4JRV, Ft. Lauderdale
FNSA

2 / FLORIDA SKIP June 1970



Letters To Editor

To The Editor:

Effective 28 April 70 Roy Durso, K4DJN and "Ace" Goodwin, W4WEU will no longer be associated with WBAICJ, Space Center Amateur Radio Society.

Recent revision of the club constitution and by-laws allowing Air Force Eastern Test Range (Cape Kennedy) Civil Service and Contractor personnel to retain membership within the club was disapproved by the National Aeronautics and Space Administration (NASA) at the Kennedy Space Center, Florida.

"Ace" and I have had a most pleasant association with the staff of Florida Skip and wish to thank all the gang for the wonderful cooperation they have given us.
73.

Roy J. Durso, K4DJN

our N.J. Chapter this year.

73.

M. Toni Cox, WB2IRT
Sec'y N.J. Chapter NAHC

Editor:

In regards to the International Phonetic alphabet, I would like to see all amateurs use it, since it is used internationally by all air lines, Coast Guard, Army, Navy, Air Force and by all communications centers throughout the world.

Between the many variations of the amateur phonetics, and the old WWII variation there is too much confusion. Since our government has given us so many more privileges than any other country in the world. Then let us all use the STANDARD INTERNATIONAL PHONETIC ALPHABET that they recommend and use.

I realize that it does sound a bit out of line, Delta for Dog etc., but this was done so that people from all nations in the world can converse with other nations in one STANDARD INTERNATIONAL PHONETIC ALPHABET, as we do with the "Q" signals on c.w.

As District Communications Officer for the Coast Guard Auxiliary, First District (15 years) my biggest trouble was getting the auxiliaries to forget the old WWII Phonetics and learn the new International Phonetics, but happily I have succeeded.
73.

Jim Mulligan W4ACM 4
Palmerton, Fla.

Editor:

Am again writing you, this time for our newly formed NEW JERSEY CHAPTER of the NAHC. We were granted a Charter from the INTERNATIONAL NAHC on Oct. 17, 1970. We have a very enthusiastic group and hope to have many activities going for us. At present we are concentrating on the 1st Hamfest & Picnic which will be held at West Brook Park, West Milford, N.J. on June 21st. (Father's Day—Support Dad in his hobby on this day), with a rain date of June 28th.

We thank you in your cooperation in the INTL. and hope you will see fit to do so in

MARTYRDOM IS AN ORDEAL

Whatever you may have read on these pages in past issues to the contrary, the arrest and prosecution of the Klarman's of North Redington Beach, for construction of their tower in defiance of legal dubious ordinances against it, is not over. This was brought out to us in a letter from Gene and Ada, WB4LWA and WN4MPU. The pair, faced with contesting this action, alone, are near the end of their patience, will and determination to carry on.

Gene and Ada, as you know, decided to become a test case. Legally, the Village of North Redington Beach, in Pinellas County has no basis for prohibiting ham towers nor requiring a building permit to construct one. This is pointed out over and over again by the ARRL Legal Kit. Yet the community government persists in going ahead with the prosecution, knowing that in the end they will lose. By dragging their feet and protracting the case for months on end, the town is causing the Klarman's needless anguish. This would be tolerable if it weren't for almost total apathy from the rest of our hobby. Some quotes from WB4LWA's letter to FLORIDA SKIP.

"It took considerable courage for us to buck a whole town, but we naively believed that if one is right, it is his duty to stand up and be counted. We have since learned that martyrdom is a vexatious and trying ordeal."

"Our loyal supporters have stayed away in droves. We feel that we should hang a sign around our necks, ring a bell, and shout 'UNCLEAN, UNCLEAN!'"

It is extremely discouraging that apathy has engulfed our hobby so much, that this serious threat to our existence, must be fought by two lonely and forgotten people. In their letter they say, "There are no heroes in our house." But of course heroes they are. Instead of supporting the Klarman's the amateurs in Pinellas County are treating them like pariahs.

When will apathy cease? Perhaps with the termination of our hobby. To quote again, "If we lose the case, shall we appeal to a higher court? IS OUR HOBBY REALLY WORTH ALL THIS TROUBLE? At this point, we don't know." Well, we know. The question, when asked, is disturbing.

— DEADLINE —
DON'T FORGET THE
10th IS OUR DEADLINE
FOR ALL ADS, COPY,
HAMBARS

EX-CALLS

There seems to be no end to the Ex-Calls. Have you sent in yours?

W3KW ex 70Y, NA7PN,
K7ABF, K7KD, W6PN, W4KD.
W4QBR ex W1ABA, W2YBT
W4VRI ex WOEMU,
W8WDO, KA2BK, K7FP,
K3QWS

W4RBM ex W0KKQ, W8HOH,
K3UKL

K4OP ex W2QZI, W8MNW
W4PWD ex WN4MHU

K4OL ex W2BB, K6HN, W7CV,
W2GKB, 1CT.

W4RME ex W5FUP,
W7LHL, W4YLA, K6DSN

WB4EWT ex W9JXC
W4SVT ex W9CUG, KR6BA

K4HA ex W4QF, W4QV,
W4PFT, OA4AA, CE3AR, K2HA

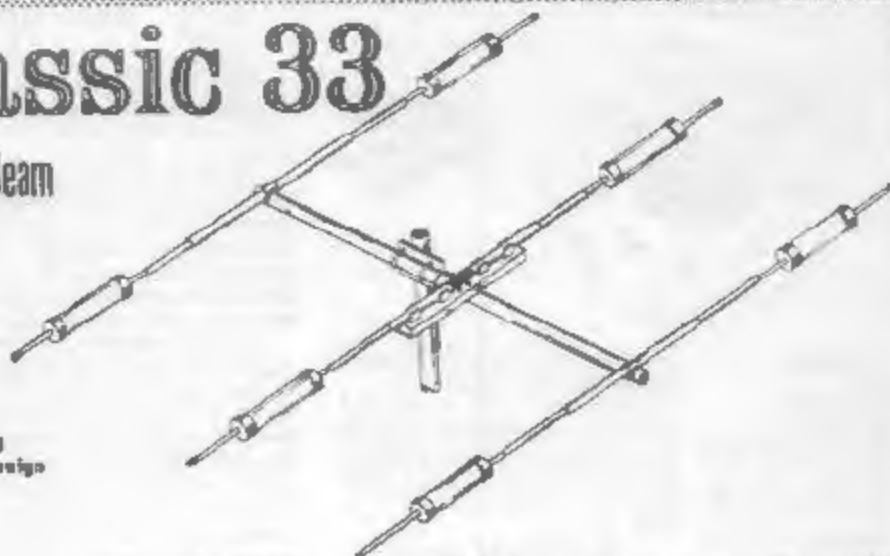
WB4LWA ex W2FJB, W1JWH

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10, 15, & 20 Meter **TRAP** Beam

FEATURES:

- Longer Boom of Greater Diameter
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- Balanced Radiation
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Another addition to the Trap-Master line, The Classic 33, rated for 10, 15, and 20 meters. Features a New Matching system, 'Balanced Capacitive Matching' for additional DX gain. Incorporates exclusive Mosley 'weather-proved' traps with resonant frequency stability. This extra sturdy beam features improved boom to element clamping, balanced radiation and a longer boom for even wider element spacing. S/S hardware. Fits up to 2" mast. Use with most heavy duty rotors.

FORWARD GAIN: Full 8 db. gain on all 3 bands compared to reference dipole or 10.1 db. over isotropic source.

FRONT-TO-BACK: 20 db. or better on 15 and 20; 15 db. on 10 meters.

STANDING WAVE RATIO: 1.5/1 or better.

MAXIMUM ELEMENT LENGTH: 27 ft.

BOOM LENGTH: 18 ft.

TURNING RADIUS: 16 ft.

WIND LOAD (80 MPH EIA Std.): 120 lbs.

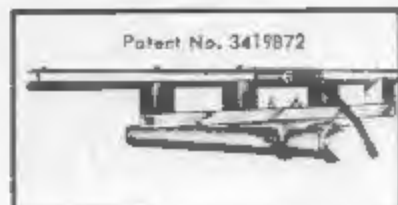
WIND SURFACE: 6 sq. ft.

ASSEMBLED WEIGHT: 42 lbs.

SHIPPING WEIGHT: Approx. 45 lbs.

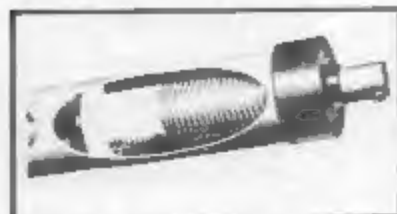
MATCHING: Balanced capacitive matching. 52 ohm

POWER RATED: 1 KW AM/CW, 2 KW P.E.P. 55B input to the final.

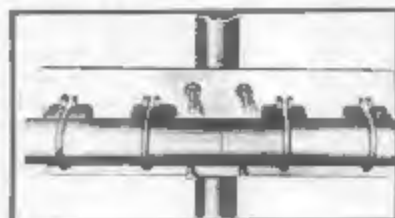


Patent No. 3419872

Mosley introduces a revolutionary new beam matching system... "balanced capacitive matching"... balanced element to coax fed. Type N connectors supplied.



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NAVY MARS

Bonnie Wieboldt,
NOPJQ WB4FSF

Please send any news you might have of both official and personal nature to me, NOPJQ. It is hard to write an article when I have nothing to write about. Please get your news to me by the end of the month.

Probably the most noteworthy event lately was the change in our Northwest and Northeast Florida areas. On 16 March 70, the Northwest Florida area was

dismantled, thus vacating the call NOGAK. The portion of Northwest Florida lying west of the Appalachicola river has become a part of the Alabama area. The remainder now has been redesignated as North Florida, with the coordinator's call being NOGAL/VJG. The southern boundaries of North Florida area remains the same.

Recently, we had a change of command of the North Florida coordinator from Jim Leavy, NOEQW to Henry, NOYJG. Thanks for a job well done, Jim and Henry should be commended for his good work also.

We have a new station aboard the net in Jacksonville, being NOQMC at Cecil Field. They have a KWM2A and station console. Construction on a new

building away from the aircraft hangers should begin soon.

There will be a district meeting in Charleston, S.C. on 22, 23 August. Our replacement for retiring Chief Leaty will be there so please if possible attend.

AIR FORCE MARS

By J. R. Hopkin Jr.
WB4BND AFC4BND

For those of you not able to monitor the HF frequencies, we are now in the Southern Communication Area, as of the first of May. We did not pick up the additional states that are coming into our new SCA Area 2 Region as previously stated, due to delays in a permanent frequency and administrative delays, but as soon as these are straightened out they will be coming into the fold. It is possible they will be with us before you read this. The sooner the better, as they are all fine fellows and will be an asset to our nets.

Before going any further I must pay tribute to one of our HF members. He is AFC4FXM, Jerry Hickok. His untiring efforts on behalf of Air Force MARS are surpassed only by his enthusiasm in aiding those members deserving of his help. I suggest those of you who have had the good fortune to be associated with him, send him a message and let him know your feelings. I can think of no better way to reward him for a job well done.

He is leaving us for a while to go over-seas for the third tour of duty in the South East Asia Area. He is a career Warrant Officer. The amazing thing about all this is he is in the Army. It just goes to show you that all the best people are in the AF MARS program, and don't you forget it!

I have recently accepted the job as Training Manager for Area 2. As soon as I find out what is expected of me from the new SCA director I intend to set up a training net. Right now, there is no hurry for this as we are not accepting new members until the new setup is solidified.

Antenna Insurance

By WA4ABY

(Editor's Note: Here is a timely article everyone should read carefully. A word to the wise — check into it now!)

Imagine what could happen to you in the future. The high winds of a hurricane are screaming around your house. Cringing at the danger, you nevertheless, attempt to fulfill the public service requirements of your license by providing needed communications for your local civil defense because all phone service is out. Suddenly, you hear a loud crash. Water starts gushing into the shack, and all your power cuts off. Admitting defeat, you hastily retire with your family to a nearby Red Cross shelter to wait out the vicious storm.

After the destruction is over and the sun is shining brightly again, you survey the damage to your property. Among other things, you are shocked to find that your fifty-foot tower topped by a complicated array of HF and VHF beams has broken away from its secure guys to fall on your shingled roof, gouging a sizeable hole in it. In a state of shock, you are partially comforted by fact that you are completely covered by insurance. Your house and antenna array will soon be in one piece again, paid for by those premiums you've been paying your insurance company the past twenty years. Wistfully perhaps, you dream of the new and better array you'll install with all that insurance money. After all, you are covered.

OR, ARE YOU?

"Not unless the ham specifically asked and paid for coverage not normally found in most homeowner policies," says Ray Bowen, Agency Manager for State Farm Insurance Company in Miami Springs, FLORIDA SKIP interviewed him to find out the specifics of antenna coverage. When does the insurance company pay for damage to ham antennas and when don't they? Although the facts presented apply specifically to his company, all insurance companies writing homeowners policies in Florida offer the same coverage and exemptions. Only the rates given may vary from company to company.

"Radio and TV antennas of any type, their towers, lead-ins and other components are specifically exempt from windstorm damage," says Bowen. "State Farm will provide this coverage for an added premium, which, frankly, is fairly expensive. We used to include wind damage antennas, but with the rise in their number and their vulnerability to wind, we found it necessary to exclude them from ordinary homeowner policies. It's a fact in this business, that as losses go up, the company must either raise premiums or add exclusions."

Depending on whether your antenna is attached to your residence or separate, State Farm charges an extra 5.4 to 9.2 per cent for all-metal antennas and towers to an extra 14.25 to 17.75 per cent for an antenna structure with any non-metallic structures (bamboo quads and the like.)

This is a fact of life in windy Florida that our plucky ham didn't know about. Now he is out the cost of that expensive array. However, Bowen noted that roof damage caused by the falling antenna is collectable. "In this case, the instant the antenna started to come down, it becomes a falling object. Any damage it does is covered in all homeowner policies," he points out.

Other items specifically excluded from windstorm damage are awnings, pool screens, and any object not attached to the residence proper, such as tool shed, children's doll house, etc. In insurance lingo, these are "appurtenant structures."

As the 1970 hurricane season nears, it would pay to check to see that your antenna is protected. If it would break you to buy a completely new antenna farm, then it probably would be prudent to pay the extra cost of protection. It's up to you of course, but don't be sorry when a hurricane pays you a call this summer.

—COMING EVENTS—

June 12-13-14	BARS Camporee, Dade City
June 27-28	ARRL Field Day
Sept. 12	Pittman Coast ARS Hamfest, Melbourne
Oct. 11	MARS Tampa Hamfest
Jan 23-24-1971	Miami Hambores

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QCWA SOUTHEASTERN FLORIDA CHAPTER

May 7th was designated our Key Night of the year and surely proved to be such. Combination of dinner and meeting took place at Smitty's Coffee Shop, Thursday evening, promptly at 7 PM. Dinners are now held Thursday evenings, the first of each month; the next one to be June 4, 1970.

Election of Officers yielded the following: W4GJ, Chairman, W4KGJ, Assistant Chairman, and W4JO, Secretary-Treasurer. Some new appointments are promised in the very near future in the nature of "On the Air Activity Managers" for each of the popular low bands and modes. The Flamingo Net roster reveals seven active QCWA members so this situation is well in hand as follows: W4GJ, W4JO, W4MNN, K4TT, K4KQ, W4FCE, and W4DTJ. (10 Meter Band)

W4BW holds the distinction of being our first ham (prior to 1918), started with Spark, at present QTH and has been on the air and kept same call ever since. W4MD holds the distinction of being Past President of the old Miami Amateur Radio Club (1927-1935). His 46 year old Call Book revealed many people who were present at the meeting. W4CJ, our QRP man of yesteryear was there, as was Ex-4QV, new K4HA of Ft. Lauderdale. Those in regular attendance, without fail W4MNN, W4EU, W4FCE, W4ILE, and W4IHW look like good material for Activity Managers.

W4IYT proposed our new dues paying plan which was accepted and goes into effect the first of the year. K4HA proposed the alternate plan which is now in effect.

We welcome new members, K4TT and W4EZG and it is good to see K4OST again. We also welcome Mrs. W4MNN, Mrs. W4FCE (WN4PDU), Mrs. K4HA, Mrs. W4CJ and Mrs. K4TT.

As promised, several ancient Telegraph Keys showed up to spark the "Key Nite of the Year". The oldest, a 1901 Maremi Flameproof Arc key, a 1910 Morse key, a home built sidewinder, vintage 1929, a Bunnel rockcrusher with back chunt contacts, perhaps 1920, and among others a Martin Vibroplex Morse bug vintage 1915-25. Oh yes, an ancient aircraft key which strapped to

your leg also showed and aroused considerable interest.

We now have 72 members in the S.E. Florida Chapter with many new promised members coming in soon. If you want a summer-picnic on one of the keys, let your Chairman or Secretary know. The new mailing list will contain only active attending members and friends. Notify your secretary immediately if you have missed the last three dinners and want to get on the mailing list. Plan to bring the wife, and or a new member.

Next dinner, June 4th will be "Operation QSL". Bring your oldest QSL or photo and be sure to register your own personal QSL with your secretary for posting at future Ham-Fests. Someone please dig up a card of former 4BI and 4ANP and other silent keys.

73 - W4JO Sec. SE Fl'm.

VHF TELETYPE

By Bob Lloyd Jr. WB4LWQ

The Goldcoast Emergency Teletype net was organized to accommodate the Vhf teletyper who is interested in serving the public in time of need. Also when the net members check in they will be kept informed on current developments in rity communications.

The net will be called by stations on the roster and then by stations not included. Unlike most nets, traffic from the high frequencies can be relayed by electrical means to the Vhf rity net. This is faster than voice and rty nets handling the same traffic.

An idea to be used in the future is employing on the net a combined Autocal-Autostart system. This enables the net control station to call certain stations without bothering other stations with traffic of which does not concern them. In this system a common and generalized call is included to call the entirety of the net.

Some stations are now planning to go mobile with teletype equipment. Stations that are mobile, could fill in the areas where a lot of traffic flows. This would leave more voice stations to fill in the places where a small amount of traffic is passed.

Using a little imagination one could see a growing art of communications in Teletype.



THIS LIVE-WIRE GROUP is the newest club in the Miami area. They are called the Dade County Amateur Radio Public Service Corps. Their club station WB4LRY is active on 80, 40 and 15 meters. Recently they obtained a 20 KW emergency generator which will be wired into their neat club station at Pace Catholic High School, near Ops Locks. Listen for WB4LRY on FD. Standing L to R: W4ZHD, WB4PWD, W4ILE, WN4OYA, WB4JJH, WA4ABY, WN4QON, WB4LKC and WB4LBB (President). Kneeling L to R: WN4QAL, WB4KQR, WN4ONR, WA4TWD and W4TZR. (SKIP Photo.)

DO YOU HAVE YOURS?

You wonder where Santa Fe, Florida is ... Shalimar ... St. Marks ... Parker ... Minneola ... Leonia ... THE LATEST EDITION OF THE FLORIDA TRAFFIC ROUTING GUIDE tells you where these places are, their zip codes, which county and ARRL section they are located and toll-free telephone info.

OR PERHAPS YOU ARE WONDERING IF THE FAST NET DOES OR DOES NOT MEET ON SATURDAYS ... MAYBE YOU HAVE A HOT PIECE OF TRAFFIC FOR WEST FLORIDA ... DO YOU KNOW WHERE AND WHEN TO MEET THE WEST FLORIDA PHONE NET ... THE TRAFFIC GUIDE TELLS YOU ALL!

Could you double check to see if a message you have for a town close to West Palm Beach

was a toll-free call from West Palm (there are 20 of them) ...

YOU HAVE JUST RECEIVED A "NUMBERED RADIOGRAM" MTX NINETY FIVE ... QUICK ... what is MTX 95 ... ari eighteen ... all the ari and mtz tests are on pages 46 and 47 of the FTHRG.

COMPLETE INFORMATION ON ALL THE FLORIDA TRAFFIC NETS ... BOTH PHONE AND CW ... IS LISTED FOR YOUR CONVENIENCE ... and ... over 800 cities in Florida at your finger tips.

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Platinum Coast Amateur Radio Society's 5th ANNUAL HAMFEST

SEPT. 12, 1970 MELBOURNE CIVIC AUDITORIUM
MELBOURNE, FLORIDA



IR.A.R.C. NEWS

By S. T. Walker, Sr., W4EWS

The Indian River Amateur Radio Club, Inc., of Cocoa participated in the annual Florida Skip 460 Party with the following members participating: Dorsey Deas WA4RIA, Ernie Baldini K4RRD, Norm Heitzweg WB4EBH, Don Noble WA4KJV, Bill Behmer WB4BSH, and yours truly S.T. Walker W4EWS. We all had plenty of practice for the upcoming Field Day in June. The plans for this event are well under way and should be a good one again this year.

A preplanning antenna party was held at the QTH of Dick Stauffer K4DVW. Dick is planning on putting up a 2 element beam (tri-band) up approx. 40 feet. Helping with the planning were Don WA4KJV, Norm WB4EBH, Jim WB4ZY, Riley WB4FXU, and Roy K4DJN. Another antenna party is being planned in the near future for Dick.

On May 11th, Mr. R. D. Strieter, W4DQS, our S.E. Division ARRL Director will give a talk to the IRARC on the results of the ARRL Board meeting just held. Dale attended our first meeting in April and

gave us a good preview on some of the upcoming topics that interest us all. We hope to have more details in next month's Club News.

The IRARC will have only one meeting a month during May, June, July, and August. The meeting will be on the second Monday of the month at the Today Newspaper Auditorium in Cocoa at 2302. Everyone is welcome.

FLORIDA SIDEBANDER ASSOCIATION

By C. B. Schner, K4SRI

"When you put your hand in a flowing stream, you touch the last that has gone before, and the first of what is still to come."

A few years ago a group of fraternally minded amateurs joined together to promote what was then a comparatively new art, that of sideband transmission and reception. During the opening period that method of communication has virtually dominated the amateur bands. More and more the movement is made, with justifiable pride, "I have been a member for — years", "I was a charter member" etc.

We have taken in twenty-five members in the last three years and are about to acquire the largest group of new members in the last five years. Greetings, newcomers; may you enjoy our organization and its fellowship as much as some of us have. When the word "our" is used, please remember that it means you and me, for without the faithful service of the long term member, and you, there could be no continuity in any organization, any hobby, any research.

For the future, we can make one solid

prediction: "The future of communications shows great promise but, because it involves the extension of man's senses, the kinds of communications services provided eventually will affect in one way or another the life of every citizen. The phonetic alphabet, the printing press, the telegraph, the telephone, radio, and now television have each changed man's mode of communication in giant steps. No planning of the effect on human beings attended the introduction of these advances in the coupling of the minds of men mainly because research in the human sciences lagged so far behind current scientific knowledge."

— from a recording of speech delivered by J.C.R. Punchart, President of the Canadian Radio Technical Board, presented at the International Electronics Conference and Exposition, Toronto, Ont., Canada October 6-8, 1966.

We are involved in the science of communications and pledged to use that art for the advancement of better human relations. Our projects, of which we are justifiably proud . . . and the fellows who have taken part in them . . . of whom we are equally proud . . . are a step in this direction . . . let's keep them going.

HOLLYWOOD AMATEUR RADIO CLUB

By Minnie Levine, WA4RLS

At our April meeting, we had a most interesting program. Tom, WB4CKY brought his RTTY equipment and showed us how it worked. Many of the members enjoyed typing on it.

We have five new members, which is most gratifying, and the novice class is making great progress and we are quite pleased about that.

We are planning a "flea market" sale in the near future, any "white elephants" we'll be glad to get.

Our meetings take place the third Monday of each month, we are always happy to welcome visitors.

GULFSTREAM SOCIETY OF AMATEUR RADIO OPERATORS, INC.

By Al Suhr, WB4AID

There is no way to express the satisfaction of accomplishment. THE TOWER WAS ERECTED AND MADE FAST ON SATURDAY, MAY 8th. The repeater was off the air for only a brief period of time. Dick Kidder, Al Suhr and Claude Edwards set the tower in its place. Actually Claude and Dick did the real long work for they did not have help until Al's very late arrival. On the day before a work party manned by John Szymanski, WB4EGU; Dick Kidder, Al Suhr, Bud Roll, WA4FFJ; Frank Piverolls, WA4TBN; Claude Edwards, K4RTW; and Jim Johnson, W4RZ lowered and removed the old mast.

Another great step forward for the Society is the purchase of low frequency gear. The Board of Trustees delegated Bud Roll the authority to purchase a used Swan, SW-260. This action surely makes us very proud, ownership is most important too, for now we will no longer inconvenience Jim Johnson, who is always coming to the rescue.

We welcome into the Society, Alan Harp,

WA4SVH, Extra Class, who has answered our letter to participate. Alan is an Electrical Engineer - Electronics Major from Indiana Technical College in Fort Wayne. He is a Test Equipment Design Engineer currently with RCA in Palm Beach Gardens.

NOVICE operators of the Society are able to work with the Novice station provided an loan by Al Suhr and Larry Nurni. This was done through the Board of Trustees. Incidentally, Neil Sommerfield, W44KP, Net Control, Florida Novice Teenage Net uses this station on our meeting nights. Just thought you'd let us claim him.

Closed circuit TV at the Science Museum and Planetarium in West Palm Beach has been installed in the name of the Society by Dick Kidder and Al Suhr. The display will be on exhibit continuously.

Warren Little, WA4EFA, was married on May 2 in New London, N.Y. to the former Miss Barbara Stubb of that city. Warren is a Design EE for Western Electric in Burlington, N.C. where they will make their home.

FLORIDORAS

By Alma Burton WA4YNX

The Floridoras are again sponsoring Jane ONWARD for membership in the YLRI.

W4GPX, Ruth has now had both eyes operated on for cataracts, and we understand she is doing just fine.

W4BIL, Fran and OM Bill are celebrating his birthday by going on a camping trip.

W4CWV, Annette and OM Tommy are enthusiastic sportscar rally participants. They came in 1st Pro in the monthly rally in April.

W4GZN, Kay and family recently made a short trip to San Antonio, Texas.

WA4YNX, Alma's 17 year old daughter Linda, a student at the Florida School for the Deaf at St. Augustine, was a delegate to the Junior National Association for the Deaf convention held at Gallaudet College, Washington, D.C. in April. Linda is secretary for her school's chapter of the Jr. N.A.D.

New Floridora members are WB4MKE, Helen Lasker of Ft. Lauderdale, W4QFP, Lillian Klarfeld (Kaufman) of Hillsdale, N.J., who spent the winter in Miami Beach, and W4JID, Mildred La Morder of Oldsmar. We all hope to meet them on the air or in person soon.

TAMPA AMATEUR RADIO CLUB NEWS

By Frank Shannon, K4GT

Al Cito, WA4MXV, spoke to membership at our meeting Monday, May 4, 1970. Al's subject was the FET, the transistor that "replaces" the vacuum tube. Al was in his usual form, with his unique "J-jargonese", somewhat limited due to presence of one lady-member!!

Ray Murphy, W4BNE, gave an excellent demonstration of a Norico Casant-type recorder - not expensive and of terrific quality reproduction, plus numerous accessories - all for approximately 40 Green Stamps.

We had attendance of 22 members, out of latest "head-count" of 48 paid-up members! Quite a good percentage. All we need, now, is for others to dig into their respective little piggy-banks and bring

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Daily

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2300 GMT

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their down-up-in-date and then return our total membership strength to normal!! Come on, fellows!!! See, or write that check to our O. G. Dodson!!

Frank Ziegler, WBTP-A, was appointed Coordinator for our club VHF net and his main task will be getting stats for net members — so that all will be on net frequency of 51.450 MHz every Thursday, 8 PM EDT. Members, Bill Holleyhead, Gordon Callender, and John Fogarty, are all busy building a 1/2 wavelength vertical ground-plane. They are copying, nearly as good, the Mosely 6 Mtr Diplomat. It will really be interesting if they can equal or better the store-bought price. Your scribe is offering them a prize, if they win, of lots of "giggleswater". You see, your scribe owns a manufactured one, and the aforementioned three have worn out my yard grass, walking around underneath it, stealing it's secrets!! C.U.

DADE COUNTY ARPS

By Boris Kirilloff Jr., WB4KJC
The Dade County ARPS has been very active in a state wide campaign for support to house bill no. 326. The Corps has been passing radio grams to several stations in Tallahassee. So far over 3000 messages have been handled.

The Corps is planning an auction to take place in September. As of now there is no date but I look for ads in Skip.

Congrats to our president's XYL who received her novice ticket and will be signing WN4QON.

The Dade County ARPS has meeting's every 2nd and 4th Thursday of every month at 8:00 PM at Pace High School, 16000 N.W. 32 Ave. All are welcome and we would appreciate your company!

DADE RADIO CLUB

Howard L. Chambers, Jr. WN4QAK
The 3d annual banquet was held at the "Sweden House" restaurant on May 6. The banquet is like Easter, it's the only time most of the members are together at one time. No formal meeting was held this month, however, there was open discussion at the banquet concerning field day, the Orlando hamfest, etc. The banquet had good turn out about 36 members and their XYLs came.

Members with new calls are: Walt Thwin, WB4KKK ex WN4KKK, Mary Jo Dean WN4QON ex S.W.L., Clap Veres WB3QON ex WN4QON. New members are: Art Rauch W4IDD 4, Nick Pikarski WN4QCL.

HAHS NEWS

By Roy Scott, W4UHF
HAHS is in its 10th year, and will celebrate its 10th Anniversary in October. Many changes have taken place during that time, especially with regard to membership. Of the original charter group, only a few continue to be active. New and younger members are taking great interest in amateur radio club activities, including being officers and directors, and are coming up with new ideas for improving the public image of ham radio, with projects for better public service. Many of our new members were former CB'ers who got their tickets with the assistance of club code and theory classes.

There are few club projects that bring club members together in a joint effort other than a hamfest. Fortunate indeed, is a club that sponsors a hamfest, such as HAHS TAMPA HAMFEST which will be held October 11 at Lowry Park. As early as the March meeting, George Dixon, WA4VQT, president of HAHS, appointed committees and offered initial plans for our big event. This is a project in which the whole club takes part, and committees are hard at work on their various assignments to do everything possible to make it a long-to-be-remembered, smoothly functioning event for our many guests from far and

near. Every effort is made to correct or improve items that were brought to our attention at the last one, and to make it a more enjoyable gathering for hams and their families. W

SOUTHERN SECTION COUNTRY COUSINS

By Cathy Soehl
W4BAV AREA ARNS

New Officers of Country Cousins were elected at their Orlando Hamfest Breakfast, 8 AM, May 24th, Howard Johnson Restaurant.

WB4IHR, Jim Oates, reported his absence from the net. He was in the hospital with a serious illness, which he contracted when he visited a patient.

K4BLM, Stan Offenbutter, kept us advised of XYL, Freddie's operation April 27th; but we were surprised at her rapid recovery and return home May 1st. She will have good care at home as Stan retired April 11th.

The Country Cousins appreciate radio equipment, etc., from the estate of K4KNE, Keith Ingalls, donated by his son, Chuck, of Warren, Mich. Also thanks to K4JSS, Paul Montgomery, for his assistance in getting the gear to us.

WB4JRY, Stan Zimmer, is due congratulations on passing his General Class License.

K4BAK, Lou Siculo, must take it easy as he suffered another heart attack, but is home recuperating. W4SKC, Dick Hogshire, is another "Cousin" that has been having a real bout with the bug. Also it is good to hear WA4UJX, Doc Putnam, occasionally checking in after his illness. He is also back to work in the hospital.

WA4CPL, Gus Goings, we hope, enjoys his trip to Bermuda and will give us a report on his return.

SUNCOAST ROVING REPORTER

By Cathy Soehl
W4BAV AREA ARNS

K4WXS, Lee Kanarian, has her troubles, while preparing dinner, cut her hand which required 6 stitches. This curtailed her activities and put OM-Charlie back on KP duty. If Lee is heard on the air a little breathless, it will probably be to having the mike in one hand, while pedalling her new bicycle exerciser. In the ham shack, WN4MEA, Maude Hall, XYL of WB4ISZ, Jim, won 11 ribbons out of her 15 entries in the Manatee River Garden Club Flower Show held in Bradenton.

W4UFR, Earl Hill, surprised everyone recently by going deep sea fishing. Now we are prepared to hear some good fish stories and the big one got away.

K4GZ, Cal Louis, is Vice-Chairman of the newly organized QCWA/Sailfish Chapter. Gol and XYL, Minna May, celebrated their 42nd wedding anniversary April 29th. Congrats!

W4CXU, Jack Faulstich, has been asked to install an electron microscope at the U.

of So. Fla. Jack and XYL, Bea, have moved to their new home, 3506 Forsythe Drive, Seminole.

K4DII, Fred McKenzie, is a "Reliability Engineer" in the Tube Division of Sperry Rand Corp., Gainesville. He graduated last Dec. from the U. of F. with a Bachelor of Science in Elec. Engineering degree. SPARC enjoyed an interesting talk by Walt Patterson, Line Supervisor of Fla. Power Corp., at their May meeting. Walt, though not a ham, is well known as he is always willing to help with our electrical problems.

WA4PYQ, Bob Grove, held the attention of members of the Sarasota Amateur Radio Assoc., when he spoke on "Electronic Metal Finders" at their April meeting.

WESTERN FLORIDA NEWS

Frank M. Butler, Jr., W4RKH

Pensacola: New appointments WA4SSB, OBS & OBS; K4CFS, OPS. K4VPY is now Net Mgr. for QFN. WB4JHQ dropped the "N". About 15 boys from K4FKV and W4ETE's Novice Class are ready for exams. WA4IZM put up 40' tower, tri-band and 2m vertical. Thieves broke into his car and took his HF mobile rig and FM control head. WB4PKR is active on the 2m repeater; he is also on 6m SSB with a TR-8.

Fort Walton: WB4KJX passed General Class. KW4OO and WA4GZU are new hams at Eglin. Appointments: W4FDJ as OBS & OPS; WA4LBM as OBS. W4ROM departed for duty as a marine radio operator. The Playground ARC changed its meeting dates to first and third Thursdays. A 6 db gain antenna was installed for the FM repeater receiver. The FM Assn. received authorization from FCC for multiple control points. WB4QB is becoming an expert on tone oscillators.

Panama City: WB4XXK and K4HLU 4 pass the Advanced Class exam. Apalachicola: WA4VFC is with Fla. Power here.

Tallahassee: The TARC is assisting a blind student at FSU in getting his ticket. WA4IBL has a new HW-17A. WB4LOQ lost the finals and HF choke in his rig when his antenna blew down!

BRANDON AMATEUR RADIO SOCIETY

By Gene Burton, WA4YNW

Reservations are coming in from all over the state for the Ham Camporee June 12-14. There have been inquiries from as far away as Tennessee. B.A.R.S. hopes that all hams who like camping will be there. Remember, everyone is welcome as picnickers on Saturday afternoon and evening. Contact WA4YNW.

At our last meeting, Al, WA4RGO gave a talk on the Florida Sidebanders Association and details of their work with the Florida School for the Blind and the Boys' Ranch at Live Oak. Also, many of the plans for Field Day were whipped into shape. Any amateurs in the area are in-

ited to participate in Field Day with us. B.A.R.S. sure is a busy bunch. Several were present at the SPARC Hamfest, and there were green vests all over the place at the Orlando Hamfest. Next, members are headed for the Ham Camporee, then a really big blowout on Field Day. For dessert, we will be taking messages and showing off Amateur Radio all day at the Brandon Fourth of July celebration.

Dennis, WN4OXZ, our membership chairman, luckily escaped with only minor cuts and bruises when WB4LHF, Bill's 90-foot tower he was working on collapsed. As it fell, he managed to jump free and landed in soft dirt.

DELTONA NEWS

By Jack Six, W4YPA

Deltona CD net meets 7:30 PM every Friday night 39,000 kHz with very good attendance. Fifteen formal simulated messages handled and our usual round table followed each formal net. All members seem to enjoy the informal after regular net. We had a new check in this month K4AIN, Frank, of Sanford.

W4TNE, Lee is enjoying a vacation to Columbus, Ohio, visiting their daughter. W4MZE, Doc is still improving from his operation. Had a land line with Doc several days ago and he is in fine spirits.

Had a nice QSO with K4IH, Bill, of Orange City. Bill has a new seventy foot tower from Rohn up with Tri Bander on it. Join our CD net on Friday nights Bill.

Tom Ames, K4LZ will be admitted to the Seminole Hospital, Sanford, Florida May 1st for surgery. Best wishes for a speedy recovery Tom.

Nothing more to report from Deltona except it is great to be alive and every day you are born anew and have your entire life to live. Have a good summer.

B.A.R.C.


By Jim Wilson, W4GDK

The Xyls, who are so patient with us and our long hours of operation, were in for a treat Wednesday night, May 13. It was Broward Amateur Radio Club's Ladies' Night. We entertained the girls at dinner and a very enjoyable evening of entertainment was planned. A peppy singing combo was on deck and door prizes brought some exciting surprise packages.

The Club's training program under the direction of Zane McCreary, WA4KXI, classes for which are being held at the S.W. Ft. Lauderdale Boys' Club, is moving forward steadily. They meet Monday and Thursday evenings as they work toward their licenses. Zane is asking for assistance in the teaching.

For our July meeting we are hoping to have the famous movie "A Ham's Wide World". Our program will interest you greatly and no matter what phase of ham radio interests you the most, you'll find others at BARC who share this interest.

(Continued on Page 8)



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CLUB NEWS

(Continued from Page 7)

and will eagerly discuss it with you.
The June meeting place is being changed to the First Federal Savings and Loan, 3rd Ave. at Lee Olas, Ft. Lauderdale, at 7:30 PM Wednesday, June 10.
We cordially invite anyone interested in amateur radio. Maybe we can help you.

VERO BEACH AMATEUR RADIO CLUB, INC.

By Grover, W4DFZ

Henry Siemen, W30IE 4 motoring up to his de stomping ground namely Long Island, N.Y.

Dick Jackson, W4ARQB again helping W4DFZ get up antenna about twenty feet higher, by converting over to tower from a three section telescoping tower that only got up to about twenty five feet. We are now a good 45 feet up in air, so look out.

Grover, W4DFZ trying to get a new chapter started for the QCWA and although progressing quite well, has run into a few snags. The initial name of the chapter will be "Treasure Coast", but several members in the Stuart area believe it should be "Sailfish". Sure this can be resolved in a democratic manner in the near future. QCWA General Manager and Executive Secretary, A. J. Gironda, W2IE advises charter will be granted soon as name has been decided and that has been done and the general manager has been advised. The following have applications pending and will become members as soon as processed and QCWA numbers assigned: Tad, K4AGU; Tom, W4KEE; Ray, W4PLQ W4PMU; Henry, W30IE 4. Creed, W4TZ got his application to become a charter member and at a recent meeting he was made secretary-treasurer, C. A. "Cal" Louis, K4GZ, vice chairman and Grover, W4DFZ chairman. The new chapter will cover the territory between Melbourne Beach on the north and Lake Worth on the south.

THE GENTLE ART OF QSL-ing

By Frank, W4JO

With postage rates on the climb, it is very evident that in the very near future QSL cards may be only a fond memory. In a life-time of ham radio (50 years), I have answered every card received, making me an honorary member of the 100 percent QSL Club. I'll admit that more than half of my cards bore the original 1c stamp as opposed to the present 5c or 13c stamp.

I keep a very accurate record of cards sent and received and today the returns are only about 10 percent on USA cards and you had better buy your foreign cards in advance. I remember back in 1920 when QSL-ing started, it was not considered unusual to get 100 percent return on cards sent. Short wave listeners sent cards and we even answered them 100 percent.

When you are sending QSL cards, look them over carefully to be sure all vital information is correct. Be sure to state the mode, frequency, time, date, signal report, and your signature. I've had cards returned "No Credit" when they lacked even one of the above items. A sure-fire way of getting a card is to enclose a photo, or a miniature calendar, a ham cartoon, or something a little extra.

Perhaps the most successful method of getting a QSL from USA hams, is to enclose your card in a sealed envelope, but be sure to "accidentally" affix a 5c postage stamp loosely on your card in such a manner that it can be removed. Foreign cards is another manner. Some

countries are very poor and the money exchange may run six to one in value received. If you really want that card, a new clean dollar bill is reputed to get results, however remember your foreign friend can easily spend a greater portion of his paycheck on QSL postage.

Your QSL Bureau is doing a wonderful, thankless job. From what I have heard, they are almost overwhelmed by the volume of business. Be sure to keep them well supplied with self addressed and stamp affixed envelopes so that they can clear their files promptly.

We need a similar system now for USA cards mailed in the USA. The active on-the-air ham visits his wholesale dealer at least once a month. This is the key to a new system. Amateur Radio Center in Miami has agreed to act as a Miami QSL Bureau and it is felt that ham dealers in other large cities might do likewise if approached properly.

The Miami Plan is for the dealer to act as receiving agent only, with the ham required to pick up his own cards in person. To speed things up take a few cards down to ARC and have them rubber stamp their address on the back of the card. Call attention to your contact that he can avail himself of this service by sending two or more Miami QSL's to your dealer (ARC). 10 to 12 cards (1 oz) can be sent in a sealed envelope, first class for 5c. Your returns are bound to improve at this rate.

To get things started, why not send an ARC addressed en-

velope with 6c stamp affixed, alone with your next QSL to some busy ham who most surely has worked several Miami hams. Tell him ARC is your QSL bureau and you want to share your envelope with any other Miami cards he would card to send. This plan could spring to life all over USA, so lets give it a boost.

FIELD DAY IS A COMIN'

It's about that time of year again. Plans, tents that don't leak, generators that will run at least 24 hours, beams that will beam, operators who will show up to operate and all that stuff. FIELD DAY — June 27th and 28th! Mark it down. This year make up your mind to get in there and operate with your club or from your home station. It's great fun. Try it.

Once again FLORIDA SKIP will have beautiful trophies to the winners of the Multi and Single transmitter class. As last year, we will use the same rules as ARRL. This should make it simple for everyone and cut down on any misunderstandings.

Don't forget, send your FD logs to ARRL, BUT send us a copy of your scores soon as possible. We will have a listing in SKIP months before QST. Oh yes, your scores must appear in QST to be eligible as a winner.

Upon recommendation of the ARRL Contest Advisory Committee, the 1970 Field Day rules will include several new features.

The field day period will be advanced one hour to start at 1800 GMT June 27 and end at 2100 GMT June 28. Time sharing devices will be expressly prohibited.

Any Class A group manning four or more transmitters simultaneously will be permitted to set up a Novice only station without changing the basic entry classification.

FD rules are now available upon receipt of an addressed stamped envelope. Clubs are requested to ask for rules at once, since no automatic mailing will take place this year.

When ordering log sheets, indicate the number of transmitters planned to be operated simultaneously and the approximate number of contacts anticipated. Allow four weeks for regular mail delivery of Field Day logs. (ARRL OB 268)

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DIRECTOR'S REPORT

(Continued from Page 1)

counsel. In brief, ARRL will request maximum privileges allowing chain linking of repeaters, optional code access, crossband operation, elimination of restrictive subbands, one KW limit, mobile repeaters, automatic or manual identification at intervals not greater than 10 minutes and relaxed logging requirements. The complete text of the filing will appear in QST.

More mail was received by your director on the proposed license fee increase than any other subject. All pertinent comments were collated and forwarded to ARRL Headquarters to assist in the filing by ARRL in opposition to this proposal. As the filing had to be completed prior to the formal board meeting, the directors, by mail, directed the Secretary and legal counsel to strongly oppose the FCC's proposal.

Valid arguments objecting to the increase based on the excessive costs of licenses, incompatibility with the incentive licensing program, lack of value received, amateurs supporting other services, and the manner in which examinations are given were all developed and expounded competently. The complete text will also be in an early issue of QST.

A counterproposal was recommended requesting the adoption of element type examinations. That is, if the code test is passed, credit would be received for this portion and a repeat code test would be



DON'T FORGET FIELD DAY is not far away. Here is a 1925 FD in the hills near San Diego, Cal. Bill Kargoll K4EQ (left) of Jupiter sent us this photo which was yellow with age. The guy on the right was W6BAS, now a silent key. No air conditioned FD sites here. (Photo via K4EQ)

unnecessary for a 12-month period.

The concept of Advisory Committees was extended and strengthened. The VHF Repeater and Contest Advisory Committees were continued and a DX Advisory Committee was authorized.

A proposal to widen the phone subbands was defeated resoundingly as not being in the best interests of amateur radio. Your director voted against the proposal for the following main reasons:

1) International impact on non-USA Radio Amateurs,

2) Adverse effect on upcoming international conferences.

3) Effect on other subband allocations.

We cannot take the selfish attitude that what we do in USA is of no concern to others. The point that USA has one vote at international frequency conferences is one point that should be uppermost in our minds. Any unilateral action on our part affects all other areas. There are no "iron boundaries" separating the countries of the world when we talk of Amateur Radio. We must strengthen our associations and friendships

with our fellow hams in as many countries as possible so that the radio amateurs can have a strong voice at these international conferences.

The effect on novice, RTTY, and CW operations are obvious.

I was gratified that the vast majority of radio amateurs that gave me their counsel prior to the Board Meeting agreed in principle on opposing the proposition even though the greater majority of them sacrificed their immediate apparent gain of more phone frequencies.

ARRL sponsorships of a 160 meter contest was authorized and a change in the mileage limit for club aggregate contest scores to 175 miles was ordered.

Studies were ordered on several matters such as reduced teenage membership fees, WIAW daytime code practice and bulletins, payment for articles in QST, hand-held emergency gear and interference to solid state home entertainment equipment.

We were assured that there would be no changes in FCC enforcement of the regulations concerning DX QSO's on the 40 meter phone band. There had been speculation that interregion DX QSO's above 7100 KHz would be illegal due to an interpretation of the 1959 Geneva Treaty.

Of interest to DX'ers was the alleviation of rigid proof showing the operation was actually conducted from a specific location. However, in case of any question arising from a DXpedition, this proof must be furnished by the participants prior to acceptance of DXCC credits.

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10-10 INTERNATIONAL NET EVERGLADES CHAPTER

By K4CYF

The final results of the Annual 10-10 Round-up Contest held February 20-27 are now available from the California headquarters. VE4LI won the AM award with 443 points. G4IUD won the SSB award with 105 points. W4RCK won the CW award with 10 points, and the Mixed Mode award with 100 points.

A total of 73 chapter heads was worked by VE4LI on AM. G4IUD worked 36 chapter heads in the SSB mode. W4IAND trailed last with 6 chapter heads on CW.

The Everglades Chapter was organized about six months ago and now boasts 13 members. W4RCK, net control, now rates the Gold and Silver Bar award with a total of 147 members worked to date. K4CYF, Temporary Net Control, also rates the Gold and Silver Bar with 227 worked to date. The latest count is over 1900 members in the 10 meter band, world wide.

7265 NET

By Rick, WB4JRV

We held an election for new officers this month. Here are the results:

Net Manager: WB4JRV
Asst. Manager: WB4IHC

The term of office is one year. At this time we would wish to thank the organizers and co-managers of the past year WB4IHC and WB4IME; enough can't be said about the time and effort they spent starting and building up the net.

As you can see, by full agreement of everyone involved in the net, we have dropped the "St. Pete" from the name of the net.

Also, we have decided to keep the

meeting time at 1600Z year round (11 AM EST & 12 noon EDT).

Gary, WB4IHC, and Rick, WB4IHC, went up to WB4PHT at the Fla. Sheriff's Boy's Ranch, helping to further interest in radio there.

Traffic and check-ins are up again this month in the averages. We held 3 meetings in April with a QNI of 47, an avg. of 15.7, and a QTC of 15, an avg. of 5. Do you have traffic that can't wait till Monday or do you work all week? Then join us on 7265, on Sun. at 1600Z. 75, on CW on the net.

FLAMINGO NET

By W4JO

Weekly meetings with roll call every Friday night, starting at 7:30 (EST) and on 20.04 KHz. Big Bird, W4GJ is the Royal Master Controlship. Membership is now 37, mostly in the Miami area. To become a member, merely answer in three consecutive net meetings, work 3 Flamingos on the 10 meter band, pay your dues and you're in, with a fancy certificate and ID card. The new roster prepared by W4MNN was delivered to all members.

Walt tried his new verticle on the net but it lacks something, height, probably. If you have tried a verticle and it seems too noisy compared to a beam, try this: Use a quarter wave verticle in conjunction with only two ground planes. Now rotate the ground plane to null out the power leak — it works, try it! This puts out a fair ground wave good enough for local nets.

We are about due another hidden transmitter bust-picnic. Carl, W4DTS, the guy with the 3 band rhombic, will be the bunnyrabbit. So get those mobiles ready. About seven have joined the AREC's with 10 meter mobile units and more are expected to join, with the summer coming on.

Speaking of summer, short ship was in April 28th with stations worked by Flamingo members in 15 states including Del., Va., Pa., N.Y., Oh., Md., Cal., Conn., N.C., Ala., Ga., Colo., Ind., Tenn., Ariz. Most of these states have not been heard since last summer. The band was open until nearly midnight.

Flamingo net members will continue to monitor 20.04 (AM), with some mobiles on 20.04 and 20.00 KHz.

FLORIDA FAANET

By George Cooper W4EHL

April labored in a month of odd propagation and ionospheric conditions for the 10 meter band as far as ye ole editor was concerned and only a few stations of the FAA net could be heard. The net meeting 3rd May conditions appeared close to normal with signals generally good from all locations. However, station check-ins was somewhat below normal and it is hoped with the improved conditions that check-ins will increase and make our net a little more interesting. So don't give up fellows net meeting time still (9-15 AM) Sun. 1945 GMT 7260KHz.

W4JVA, Paul Colby, advises don't blow your power supply, it can get rather expensive.

W4JLU, "Pete" Blair Pearson, was a recent new check-in. Glad to have you with us Pete and welcome aboard.

By the time this goes to press Stark Tomsan, W4YR, and his Airstream trailer should be well on their way to New England.

While April was a rather poor month for the Florida FAA Net with W4JVA off with power supply problems and poor propagation it is urged all members to please check in. Thanks and 75.

GATOR NET

By Ev Batten, W4IA

April was a rather rough month on GN with reduced attendance, less traffic, bouts with skip conditions, and several operators in or out of town. But things were looking up as the month closed.

The shift to 0830 EDT (1230 GMT) was without incident and our "skip" troubles were not related to the new time. During periods of poor conditions on 21.3 KHz, our alternate frequency of 3601 is used to advantage. As standard procedure, the NCS opens the net daily on 715 at 0830. If he finds conditions unworkable, he then shifts to 3601 at 0835.

Congrats to Frank, WB4HCP, who qualified for GN certificate. Also to Bill, W4EHW, our sole 100 percent QNI man in April. Thanks to Jim, W4JWM, for some FB pinch-hitting at NCS.

Although Gator Net is "all-Florida," our coverage is somewhat spotty. We would welcome with open arms QNIs from the seldom heard areas.

QFN REPORT



By K4EHY

April QFN was fine until the fateful day of Daylight time change, when confusion descended upon us. What with many people missing the QNC's announcing the staying on 3651 until conditions got too bad,

and simultaneous sessions with the FAST net made things a little hairy for a while. The summer is upon us and with that is the accompanying bad conditions, vacations and missing Reps and skeds.

KZADA, Ed, in the canal zone has become a regular fixture, as he tries to spur some kind of activity up, down in the infolent tropics. Ed is from W2 land, and is looking hard at the SCM job down there. W4ALBM, Don, is back regularly again between times spent slaving for the Air Force and a new xyl. Heard W4LUV, Chuck, on for his monthly drying out of his equipment. Welcome to Bob, W4UQQ in Winter Haven and W4WEB, Ricky in Tampa. Other new calls heard in April were: WB4LIE; WB4KDI; WB4ONG; WB4CFM. Looks like K4BSS, Nick, former regular QFN member, has been transferred again to 3-land. He should be retiring soon back to Pensacola. Missing lately has been W4BVE, Alan and W4ASSB, Jim.

June 1 begins new term of office for Mike, K4VFX, as Net Manager.

NCS's are reminded to route ANY traffic not deliverable on QFN via a SSB rep. Not because SSB is a better way to handle traffic, but it is admittedly easier to get 100 percent representation of Florida cities on 10m. Although we have a roster full of sub reps, ANY station who can act as liaison to any SSR net so inform the NCS when QNI. If a regular REP or Alternate spot is wanted, contact Assistant Manager W4ASCK.

All ARRL members should try out the OPEN CD Party (Communications Department) held in July. If you would like to join this get-together regular, you can qualify for an ARRL Official relay station appointment. See SCM W4KGI or K4B: W4ILE or K4EHY.

TROPICAL PHONE NET

By Ken W4SMK

The Tropical Phone Net has a new net manager, Ricky, WB4HNL, Tampa.

(Continued on Page 12)

TRAFFIC HOUNDS

Net	QNI	Avg. QNI	QTC	Avg. QTC	Sessions
FMTN	769	30.8	342	13.7	26
QFN	710	11.83	529	8.81	60
TPTN	600	23.0	200	7.7	26
FAST	861	33.3	197	7.15	26
FPYN	575	22.12	176	6.73	26
GN	233	7.8	197	6.6	30
WFTN	431	-	526	-	30

TOP TWENTY TRAFFIC TAKERS

1.	W3CUL/4	3,896	11.	WB4AIW	158
2.	WB4HCP	580	12.	BR1Y/W4	143
3.	W3VR/4	509	13.	W4SDR	120
4.	W4MOQ	470	14.	K6DPH/4	114
5.	W4IYT	323	15.	W4KRC	94
6.	W4SCK	284	16.	W4BKC	91
7.	W4NBT	278	17.	W4EHW	85
8.	K4VFX/4	244	18.	WB4FLW	78
9.	W4FPC	233	19.	WB4EPD	77
10.	WB4HJW	232	20.	W4DVO	77

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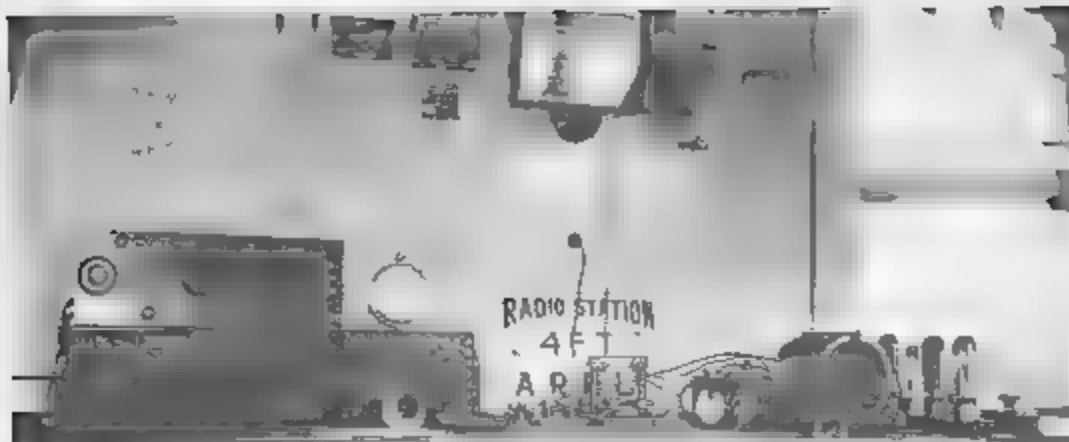
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WE ARE SURE MANY of our SKIP old timers will enjoy seeing this photo sent in by Bob Gleason W1KW of Annapolis, Md. This station belonged to 4FT back in 1923. Bob was 700 then. Five dollars to the first person to identify all the commercial built equipment in this photo. Any takers?

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Sec. K4RHL Treas. K4WXS



Florida SKIP DIRECTORY

Each month you will find the following listings. Keep it handy. ARRL Officials are listed free. Florida Nets are listed free upon notification from net manager. Clubs listed for \$12.00 per year. (Free to clubs taking box ads elsewhere). Any individual may be listed for \$5.00 a year. (The ones who really care.) Let's fill up this page!

ARRL LISTINGS

Director, S.E. Division
R. DALE STRIETH, W4XQS
938 Trinidad
Cocoa Beach, Fla. 32931

Vice Director, S.E. Division
CHARLES BOLVIN, K4XQ
2210 S.W. 27th Lane
Miami, Florida 33133

SCM, E. Fla.
JOHN F. PORTER, W4KGJ
P.O. Box 7290
Miami, Fla. 33150

Asst. SCM E. Fla.
Albert Hamel, KR5WH
220 N.E. 25th St.
Pompano Beach, Fla. 33064

SCM West Florida
FRANK M. BUTLER, Jr. W4RCH
523 Elliott Rd., S.E.
Ft. Walton Beach, Fla. 32948

SEC East Florida
ANDY CLARK, W4HYT
41 Lenape Drive
Miami Springs, Fla. 33166

SEC West Florida
G.D. McKECHNIE, W4KEB
1000 N. 9th Street
Chipley, Florida 32428

Asst. SEC East Florida
KEN STEWART, W4SMK
2357 Maple Ave.
Ft. Myers, Fla. 33901

NET LISTINGS
QFT (AR Florida)
7:00 p.m., and
1000 p.m. local daily 365 days
Net Mgrs.: WB4HJW

FSBA Sundays
5 p.m. on 360 kc.

FSBN Wednesday
7:30 p.m. on 360 kc.

KNIGHTS OF KILOCYCLE,
Sundays
7:30 a.m. on 3610 kc.

MOONPORT MICROWAVE
ASSOCIATION NET
Sundays at 2000 EST
Frequency 145.5 mhz.
Net Manager — WB4EHG

GATOR NET (GN)
Daily 8:30 a.m. on 7115 kc.
Net Manager: W4IA

TROPICAL PHONE TRAFFIC
NET (TPTN) Daily except Sat.
5 p.m. on 3940 kc.
Net Manager: WB4FLW

FLA. AMATEUR SIDEBAND
TRAFFIC NET
(FAST) Daily except Sat.
6 p.m. on 3640 kc.
Net Manager: W4SEF

WEST FLORIDA PHONE NET (WFPN)

6 p.m. on 3657 kc. (2300Z)
Net Manager W4MQQ

FLA. PHONE TRAFFIC
NET Mon. thru Sat.
7 a.m. on 3940 kc. Net
Mgr: W4NGR

FLA. MIDDAY TRAFFIC NET
Daily except Sun. at 12 noon
On 7254 kc. Net Mgr: W4SDR

MOVIE HURRICANE NET
(MHN) Sat. & Sun.
2:30 p.m. on 7165 kc.
Net Manager: W4NCH

GOLD COAST EMERGENCY NET
4 Mhz. 30.445 mhz Mon. 2000 local
2 Mhz. 145.33 mhz Tues. 2000 local
WB4KY, ST. Broward Co., Mgr

FLAMINGO NET
Friday, 7:30 P.M.
20.04 AM
Net Manager: W4GJ

CLUB LISTING

BROWARD AMATEUR RADIO
CLUB W4AB
2nd Wed. of month, 7:30 p.m.
Broward County Courthouse
Mailing Address: P.O. Box 9673
Ft. Lauderdale, Fla. 33310 More info. call
352-1517, 354-1237

LAKE AMATEUR RADIO ASSN.
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Meets each Thurs., 8 p.m. EST
Clubhouse, Springdale Ave.
Bassville Pk., between Leeburg
and Tavares, Florida
Mail to Sec., 1270 Sheridan Rd.,
Mount Dora, Fla. 32957
Phone: 352-4548

HILLSBOROUGH AMATEUR
RADIO SOCIETY, INC. W4GJ3
Meets 4th Tuesday, 7:30 P.M.
Odd Fellows Temple
6229 Nebraska Ave., Tampa, Fla.
Mail to: 12915 Veronica Ave.
(33612) Visitors always welcome

DADE RADIO CLUB, INC.
(W4NV) 1st & 3rd Tuesday,
Museum of Science 8 p.m.
3280 So. Miami Avenue
Miami, Florida
Mailing address: P.O. Box 73
Biscayne Annex
Miami, Florida 33152

NORTH FLORIDA AMATEUR
RADIO SOCIETY W4E
2nd Thursday, 7:30 P.M.
Daryl CD Headquarters
187 Market Street
Jacksonville, Fla. 32202

ST. PETERSBURG AMATEUR
RADIO CLUB, Inc. W4GAC
Meetings: 1st Friday
Astoria Community Center
1401 — 72nd St., No.
Mailing Address: P.O. Box 4026
For information phone:
345-0464 or 826-4294

ORLANDO AMATEUR RADIO
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3rd Wed., 8:00 p.m.
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dress: 1421 SW 13th Ave.,
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TAMPA AMATEUR RADIO
CLUB, INC. W4DUG
Meetings: 1st & 3rd Mondays
7:30 p.m.
Club House: Davis Islands,
Columbia & Barbados
Mailing Address: 943 Cimmeron Ave.,
Tampa, Fla. 33603

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SOUTH MIAMI RADIO CLUB, INC.
K4JVA 1st and 3rd Fri., 8 p.m.
Coral Gables Police Station
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446-2478 or 567-4564

DAYTONA BEACH AMATEUR RADIO
ASSOC. K4BY
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Daytona Beach, Fla. 32015

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Lake Worth, Fla. 33460
Phone: 582-3879

Hollywood Amateur Radio Club,
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PERSONAL LISTING

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GOOF DEPT.

Last month in our lead
Hillsborough Red Cross story,
we listed Earl Miller, K4HFF as
K4JHH and George Orth,
WA4THT as WB4THT. We also
omitted Seward, WA4FTP,
XYL Helen K2GSP, Vanpatten,
Operation's coordinator at the
Red Cross Hq. These two folks
operated at Red Cross Com-
munications Center, 10 a.m. to 5
p.m. throughout the entire 6 day
exercise. Thanks to Ray,
W4BNE for bringing this to our
attention.



OPERATING FROM his second home near Sarasota is the famous Mac
Burke, W3CUL/4, OM, A1, W3VR, has the equipment set up in a utility
room of their new mobile home. Mac and Al returned to Morton, Pa., during
May. Mac has lead the nation in her traffic work for many years and holds
countless awards and trophies. Hurry back, folks.

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FOR SALE: Johnson Invader 2000 perfect condition, complete with manual \$400.00. Johnson Kilowatt Matchbox, complete with SWR meter \$135.00. Hammarlund HQ-110C \$175.00. All in excellent operating condition. Fred Peck, W4PE, 825 Memphis, Coral Gables, Fla. 33134 Phone 443-8323.

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FOR SALE: Best offer, Heath Senica VH-F-1, Knight ZM TR-108, Lambda LE-105, 9-18V 0-8A .005 regulation, Phil Marsh, 2665 N. Highland, Apt. 312 K-1, Clearwater, Fla. 33515.

WANTED: Fold-over, crank-down tower with tri-band beam installed on my concrete base. Offer \$750.00. FM Stereo tuner, preselector, 70 watt amp, large reflex speaker system, cross-over networks to 4 speakers each cabinet, Miracord changer, W. Guy Watson K4APE, 2330 NE 200th Terr., North Miami Beach, FL 33160 Phone 945-6487.

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FOR SALE: Galaxy V Mk II and remote VFO RV-1 \$225.00. Excellent condition. T. H. Goldsmith WB4EQU, 49 Memorial Parkway N.W., Fort Walton Beach, FL 32548 phone 343-4607.

FOR SALE: Mosley beam, TA-36 and rotator CDR TR-44, and control cable, all for \$125.00 cash. Ed Sipple WB4OKH, 325 Elizabeth Place, South Daytona, FL 32019 phone 767-5974.

STOLEN EQUIPMENT: While in Florida on April 2, 1979 my car was burglarized in North Ft. Myers, Fla. Stolen was a Lafayette 6 meter solid state transceiver model HA-750. Ser. No. 10041. Anyone having information about this equipment is requested to contact Larry Haul WABDIO, 3228 Blue Lake Dr., Flinet, Mich. 48506 call collect 313-743-0470.

IF ON THE RED PLANET, MAN MAKES HIS ABODE, THE FIRST THING HE WILL NEED, IS A NEW MARSCODE. W4ERO, Sanford, Fla.

WANTED: The CW county Hunters net welcomes all interested in CW county hunting to join their nets, Sat. 1470 KHz, 1400 and 2000 GMT. Sun. 755 KHz at 1600 GMT Wed. 2055 KHz at 2400 GMT. A sample of the CW CHN newsletter can be had free from Jim Hoffman K1ZPQ, 42 Freshman St., Milford, CT. 06460.

FOR SALE: COLLECTORS ITEMS. Murdock variable condensers model 367 \$15.00, model 368 \$10.00 (1914). Jove crystal detector \$10.00 (1920). DeForest crystal detector \$10.00 (1919). U.S. Navy crystal detector \$25.00 (1920). Chelsea variable inductance 10 taps \$15.00 (1915). J. H. Buntell telegraph sounder mounted, key missing (1916) \$10.00. TA-28 Jr with TR-44 rotor \$75.00. GR Varior 650 watt \$7.00. Two Barker Williamson speech amplifier modulator units 75 watt, no tubes, uses 2 6146 in final \$10.00 each. Will swap 35 mm telephoto lens 36 inch f 6.3 Tessar with SLR camera mounted on custom base with commercial TV camera tripod, cost over \$1000.00 will swap for 5-band selectable SB transceiver, Bell Howell 70 AB 16mm movie camera, 25 mm f 1.5 lens with prismatic rf. or \$25.00. More next month. Tom Chisholm W4FP, P.O. Box 2273, Lakeland, Fla. 33802.

WANTED: RADIO BROADCAST MAGAZINE \$1.00 PER COPY. In good condition, single or a number of different issues, from Volume 1, number 1 to Vol. 8, No. 5. Let me know what you have and if not already secured I will mail a check to cover purchase and postage. Arthur H. Lynch W4DKJ, 5385 Nauticus Dr., Cape Coral, Fla. 33904.

FOR SALE: 5K-101, matching speaker \$100.00. Advance antenna relay 110 V.A.C. with DPDT \$10.00. Collins 180-A patch \$16.00. All good condition all FOB. W. J. Schuch WB4NHM, P.O. Box 385, Destin, FL 32541 Phone 837-6438.

FOR SALE: Collins 75S9C, 25S1, 516F2, 312B4, 5WA, BT1 linear, 40 extra tubes, all mounted in 8 foot walnut console. \$3,000.00. Donald P. Pittmann W4FBN W7BQI, 1231 SW 4th Ave., Pompano Beach, FL 33060.

FOR SALE: COLLINS 25S1 transmitter 516F2 PS \$400.00. 75S3 receiver \$350.00. Collins 312B4 station control \$125.00. Collins dummy load \$20.00. Collins 5303 mike \$20.00. John Fearon, 3334 Peachtree Rd., N.E., Suit 700, Atlanta, GA 30328.

TRANSFORMERS REWOUND, Jess Price, W4CLJ, 411 Gumbo Ave., Orlando, FL 32801. Phone (305) 425-2251.

FOR SALE: Knight R-100 receiver with 5-meter and speaker \$60.00. Heath DX-100B 200 watt transmitter \$60.00. Both \$190.00 in excellent condition. Hallicrafters S-40A \$30.00. Cal Watts W4YJY, 596 Gailin Ave., Orlando, FL 32806. Phone 424-5857.

FOR SALE: CLARE HG-1002 mercury wetted contact relay, perfect for electronic keyers \$2.00 each. Simpson hi-sen relay, model 800C, 10 us 7000 ohms, plug in type \$2.00. Heath Kit type checker model TC-2 \$12.00. Andy Clark W4YIT, 41 Lenape Dr., Miami Springs, FL 33166 Phone 888-3874.

FOR SALE: SB-14 transceiver \$250.00. SB-2 linear amplifier \$175.00. like new, will take \$400.00 for both. Also TB-500 Hornet Tri-Bander. HW-30, 2 meter transceiver with xtals and 10 element Hy-Gain beam, make offer. Bill Moffatt, W4RVX, Rt. 1 Box 386, Bartow, FL. Phone 533-3637.

FOR SALE: Amplifier parts, 4 each good 611A tubes, sockets, plate caps, FC-15 filament, choke, filament xfmr. H.D. roller inductor, timing capacitor and plate choke. Package \$35.00. Winky, W4NBT, 2631 Madison St., Hollywood, FL 33020 phone 929-0300.

FOR SALE: Heath "Chippewa" amp model KL-1, 30-100 meters, 1 KW c.w. Class C, 2-KW PEP SSB, class AB-1 excellent condition \$300.00 or best offer. Robert D. Patten, W4OZF, 2311 W. Nassau Dr., Miramar, FL 33023 Phone 961-2722.

ENTIRE STATION: 75S3 speaker, 32S1 516F3 PU, SB-200 linear, 3400 W, 50 ohm load, HA-1 autokeyer with bug, Compact 80 - 40 inverted Vee with mast. Equipment A-1 and service bulletin up to date. \$1179.00. Dale Williams W4EPC, 421 Zantora Ave., Coral Gables, Fla. Phone 448-8552.

FOR SALE: TABB Sr. antenna, handles full legal power, 10, 15 and 20 meters with CDR Ham M rotator complete with manual and control unit. Package only \$120.00. Edward D. Meeker W4QEO, 3444 Sanders Road, Jacksonville, FL 32211 Phone 904-737-2900 home 904-744-2413.

FOR SALE: Two way Communications & Electronic Sales Service Shop. Also have Lafayette Associate Store Contract. Over \$100,000.00 a year gross. Contact Mr. Louis C. Bergetroth, 2794 Okeechobee Road, Ft. Pierce, Fla. 33450.

FOR SALE: New 4 and 8 track cartridge recorder for use with external amp on play back \$35.00. Surplus signal generator 1-232-A, 150-250 Mc and 8-15 mc with calibrated attenuation for 114 v.a.c. to new condx \$65.00. New solid-state portable SW rcvr, super bet using plug-in coils to cover .54 to 31.5 mc in 4 ranges \$20.00. Stereo record player with solid-state amp \$15.00. Elmar PRM-4A mobile amateur band rcvr \$20.00. Norman Gerber W4ZRT, 860 N.E. 61st St. Miami, Fla. 33138 Phone 758-2658.

FOR SALE: Heath Q multiplier HW-11, very clean \$5.00. GONSET super-six amateur band converter \$10.00. Teletype paper, continuous fold, per case \$35.00. 6 meter 3 ring halo mobile or fixed antenna, coax and connector \$7.00. Heavy duty 10 meter ground plane, good for at least 30 thousand QSOs. \$10.00. Filter condx 2MF at 4000 vmts \$2.00. All FOR. Andy Clark W4YIT, 41 Lenape Dr., Miami Springs, Fla. 33166 phone 888-3874.

FOR SALE: GONSET GSB100 3 band 100 watt transmitter exciter. New tubes, power transformer, aligned with lab instruments \$970. Manual USB LSB. CW, AM, FOX, looks like new. Money order or cashiers check \$95.00. FOB Tampa. 68 pounds. G. L. Roberts K4NX, University of Tampa, Tampa, Fla. 33606.

WANTED: power transformer, 3300 each side of center at 300 mhz with 110-200 v.a.c. primary. Give condition and price in first letter. A. R. Marcy W4ID, 401 Third Ave., Sea Park, Eau Gallie, Fla. 32935.

FOR SALE: R4B-MS4 with WWV, MARS-4025 all of 10 meters, mint condx \$350.00. Ray Farwell W4RJ, 370 N.E. 147th Terr., North Miami, Fla. 33161.

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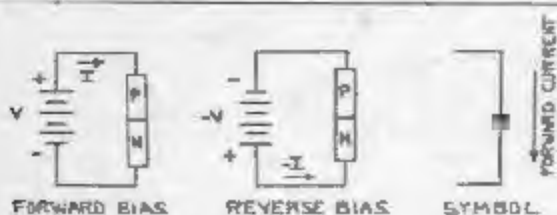


FIGURE 1 - DEFINITIONS

SOLID STATUS

By Dick Blasco WA4DHU 2

(Editor's Note: Dick Blasco has agreed to write us more of these articles if our readers would like them. Drop us a line today if you want more next month and months to come.)

"Transistors are here to stay." This statement might disturb a few hams, but it is a fact of life for everyone interested in electronics. The fact that many amateurs have been slow to accept solid state electronics is due primarily to two reasons: 1) Transistors are a little trickier to bias than tubes; 2) Basic transistor theory has been presented to the ham on a level really needed only by engineers, with quantum physics, band diagrams, loop and transcendental equations thrown in to both confuse and impress him.

The first objection must be lived with, but it isn't as bad as it seems. It will be shown that for practical transistor biasing, you can get by with Ohm's law and a handful of assumptions. The second objection is quite valid, however. All of the "highfalootin' rigamarole" everybody goes through was necessary in the days when it was hard to believe that a little piece of rock can amplify. However there are so many transistor radios and stereos around that most people now believe in transistors, and there no longer is a need to show mathematically that they will work, or why they work. I wonder how many hams would have accepted vacuum tubes if they first had to learn static field theory and electron ballistics. Not very many. But if you look at it, vacuum tube theory and manufacturing techniques are quite involved when you get into the nitty-gritty of it. So these articles will ignore the modern physics and attempt to present transistors on the same level that tubes are presented to amateurs. The Nature of the Beast.

Transistors and diodes are generally made from either Germanium or Silicon. There are two types of each used in these devices: P-type and N-type. The place where the two types of material comes together is called a junction. When a P-N junction is hooked up to a voltage supply as in figure 1, current will flow across it as shown in figure 2. Assuming that current flows from positive to negative (which only gives a common convention — this theory could just as easily be explained with current flowing the other way); notice that when positive voltage is put on the P material and negative voltage on the N material, very little current flows until a "barrier" potential (0.3 volts Germanium and 0.6 volts for Silicon) is reached. After that, current increases very rapidly with very little increase in voltage. This barrier voltage depends almost entirely on the type of material and has little to do with the physical size of the junction. This is the FORWARD BIAS condition.

Turning the battery or voltage source around so that negative voltage is on the P material and positive voltage is on the N material, the REVERSE BIAS condition occurs. Very little current flows until the "reverse breakdown voltage" is reached, past which current increases rapidly with small increase in voltage. This reverse breakdown voltage depends on the size of the junction and the degree to which the material is P or N type. Thus the reverse breakdown voltage varies widely from device to device, and can be anywhere from 5 to 3000 volts. When a junction is carefully designed, the reverse breakdown curve can be made quite sharp, as shown in figure 2, and you have a "Zener" diode which can be used for voltage regulation.

Notice that if the junction bias voltage is between the reverse breakdown and forward barrier potentials, the junction appears to be an open circuit, and if the voltage is greater than the barrier or breakdown voltage the device looks like a short circuit.

The symbol for a P-N diode is shown in figure 1. NOTICE THAT THE ARROW ALWAYS POINTS IN THE DIRECTION OF FORWARD-BIAS CURRENT FLOW, assuming current from positive to negative. The arrow also always points toward the N material. This same convention is ALSO TRUE FOR TRANSISTORS.

That is the nature of the P-N junction, which is central to all solid-state theory. The next article will explain some of the basic characteristics of transistor behavior.



FIGURE 2
P-N JUNCTION
CHARACTERISTICS

HURRICANE FACTS

By K4UBR

Doctor Robert H. Simpson, Director of the Miami Hurricane Center, addressed the Playground ARC and invited guests on March 4th, on the inexact science of hurricane forecasting.

His presentation of the forecasting system, storm tracking and storm detection caused many an eye to widen in disbelief as the eminent tropical storm specialist described the many unpredictable parts of a severe tropical storm. He said that the biggest threat from any storm lies in the populace relying on unfounded beliefs that certain coastal areas have a mythical immunity from hurricanes. This mythical immunity causes people to wait too long to make the decision to seek higher and safer ground. He emphasized that everyone in a hurricane prone area should take it upon himself to find out the best evacuation route and how vulnerable to flooding the lowest point is and to plan his movements accordingly.

A hurricane is nature's way of

relieving an over-heated condition. When the sun and the moon combine their gravitational forces they can influence the formation of hurricanes. If the sea forces are combining to create a high tide at the time that a hurricane goes ashore, there will be an unusually higher storm wave associated with the hurricane.

Doctor Simpson was especially grateful to the Amateur Radio Operators for their assistance during difficult times. He and everyone present felt that the Radio Amateurs participation in hurricane warning and weather relaying will continue to be important to this far-sighted researcher of nature's most vicious storms.

Doctor Simpson explained how hurricane Debby was seeded several times during a 2 or 3 day period and a decrease in wind velocity of approximately 30 percent was recorded after seeding. This proved conclusively that hurricane wind velocity can be reduced by seeding.